

# Will Simmons

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## Education

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M.P.H.      Epidemiology/Biostatistics, 2020  
 Columbia University, New York, NY  
 GPA: 4.0

B.S.        Neuroscience, 2015  
 Baylor University, Waco, TX  
 GPA: 4.0

## Experience

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### Professional and Research

Jun 2020–	Weill Cornell Medicine, Division of Biostatistics Programmer Analyst I Department of Population Health Sciences	New York, NY
2019–2020	Columbia University Mailman School of Public Health Graduate Research Assistant, Department of Epidemiology Supervisor: Dr. Jeanette Stingone	New York, NY
2019–2020	Columbia University Earth Institute Graduate Research Assistant, International Research Institute for Climate and Society Supervisors: Dr. Hannah Nissan, Dr. Robbie Parks	Palisades, NY
2015–2018	Hawai'i Alliance for Community Based Economic Development Grantwriter (Food Systems Specialist)	Honolulu, HI
2015	Our Children, Their Nutrition Lead Program Evaluator	Waco, TX

### Teaching

2021	Weill Cornell Medicine Teaching Assistant, Data Science I M.S. Biostatistics and Data Science Program	New York, NY
2019	Columbia University Mailman School of Public Health Teaching Assistant, Quantitative Research Methods Master's (M.P.H., M.S., M.H.A.) Programs	New York, NY

## Funding, Honors, and Memberships

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### Grants and Scholarships

2018–2020    Wyman Scholar, Columbia University Mailman School of Public Health (full tuition: 2 years of graduate study)

2013        Glennis McCrary Goodrich Scholarship Award for International Research (\$3,500)

2011–2015    Regent's Gold Scholar, Baylor University (full tuition: 4 years of undergraduate study)

### Awards and Honors

2020        First prize research poster, NYC Clinical Climate Change Conference

2019        First prize research presentation, Master's Student Day, Columbia University Department of Epidemiology

2015        Top B.S. Neuroscience graduate (1/67), Baylor University

2014–      Phi Beta Kappa Honor Society

## Professional Memberships and Volunteer Activity

- 2021– Member, Scientific Committee, NYC Epidemiology Forum  
2021– Member, American Statistical Association

## Publications

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### Accepted:

- 2021 **Simmons W**, Stingone J, Luben T, Sheridan S, Langlois P, Shaw G, Reefhuis J, Romitti P, Feldkamp M, Nembhard W, Browne M, Lin S, and the National Birth Defects Prevention Study. (In press). "Modeling complex effects of exposure to particulate matter and extreme heat during pregnancy on congenital heart defects: a U.S. population-based case-control study in the National Birth Defects Prevention Study." *Science of the Total Environment*.
- 2021 Downs SD, **Simmons W**, Nissan H. (In press). "Building climate-sensitive nutrition programs: a roadmap." *Bulletin of the World Health Organization*.

### Under review:

- 2021 Alvarez-Mullett S, Buyukozkan M, Racanelli A, Batra R, Hoffman K, **Simmons W**, Benedetti E, Chetnik K, Schenck E, Schmidt F, Suhre K, Choi J, Zhao Z, Racine-Brzostek S, Yang SH, Choi ME, Choi AMK, Cho SJ, Krumsiek J. "Integrative Metabolomic and Proteomic Signatures Define Clinical Outcomes in Severe COVID-19." Under review at *Cell Metabolism*.
- 2021 Flory JH, Min JY, Banerjee S, Mushlin AI, Williams N, Reese A, **Simmons W**, Wang F, Zhang Y. "Outcomes of Hospitalized COVID-19 Across the range of baseline HbA1c: a retrospective analysis of New York City's INSIGHT Clinical Research Network." Under review at *BMJ Diabetes Research and Care*.

### In preparation:

- 2021 Zhang WZ, **Simmons W**, Kim K, Hoffman K, Haber L, Goyal P, Schenck E, Plataki M, Choi AMK, Cloonan SM. "Macrophage ferritin light chain secretion is a protective response in Acute Respiratory Distress Syndrome (ARDS) with relevance for COVID-19 induced critical illness." Target: *American Journal of Respiratory and Critical Care Medicine*.
- 2021 Min JY, Williams N, **Simmons W**, Banerjee S, Wang F, Zhang Y, Mushlin AI, Flory JH. "Baseline hemoglobin A1c and the risk of COVID-19 hospitalization and death among type 2 diabetes patients in the INSIGHT Clinical Research Network." Target: *Diabetes Care*.

## Presentations and Invited Talks

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\*Presenting author.

- 2021 **Simmons W\***. "data.table and dplyr: R packages for high-efficiency data processing." Invited lecture, Data Science I, Weill Cornell M.S. Biostatistics and Data Science. New York, NY.
- 2021 **Simmons W\***, Stingone J, Luben T, et al. "Modeling complex effects of exposure to particulate matter and extreme heat during pregnancy on congenital heart defects." Poster presentation, 33rd Annual Conference for the International Society of Environmental Epidemiology. Virtual. doi.org/10.1289/isee.2021.P-571.
- 2021 **Simmons W\***. "Balancing reproducibility and modifiability: ETL pipelines using R and the REDCap API." Invited presentation, Weill Cornell Biostatistics Computing Club. New York, NY.
- 2020 **Simmons W\***, Nissan H. "Climate variation and anthropometric indicators of under-5 nutrition: Bangladesh, 1990-2006." Poster, 2nd Annual Conference on Clinical Climate Change. Icahn School of Medicine at Mount Sinai. New York, NY. First prize.
- 2019 **Simmons W\***, Nissan H. "Associations between climate and under-5 nutritional status in Bangladesh, 1990-2006." Invited presentation, Epi Master's Student Day. Columbia University Mailman School of Public Health. New York, NY. First prize.
- 2016 **Simmons W**, Baker L\*. "Clean water, food security, or protein? A study of growth among children in rural Kenya." Presentation, 13th Annual Global Health & Innovation Conference. Yale University, New Haven, CT.

## Technical Skills

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### Languages, Software, & Tools

*Daily:* R, SQL, Git/DVCS/GitHub  
*Weekly:* SAS, REDCap  
*As needed:* R Shiny, L<sup>A</sup>T<sub>E</sub>X, QGIS

### Certifications

HIPAA, CITI Human Subjects